

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

L. Park
10-22-02
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In re the application of: Dale, Anders *et al.*

Group Art Unit: 3736

Serial No.: 10/055256

Examiner: Not yet assigned

Filed: January 22, 2002

For: *ATLAS AND METHODS FOR SEGMENTATION
AND ALIGNMENT OF ANATOMICAL DATA*

Attorney Docket No.: HGS-001

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September 11, 2002

By:

Date of Signature and of Mail Deposit

DeAnn F. Smith, Esq.

Registration No. 36,683

Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

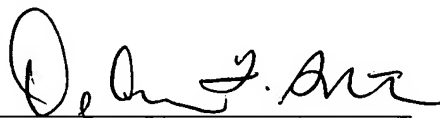
Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A copy of each cited publication is enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be

construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

Respectfully submitted,
LAHIVE & COCKFIELD, LLP

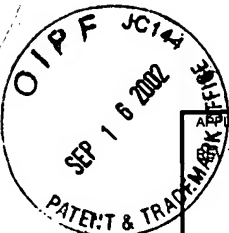


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APPLICANT FACSIMILE OF FORM PTO-1449

U.S. DEPARTMENT OF
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ATTY DOCKET NO

SERIAL NO.

HGS-001

10/055256

LIST OF PUBLICATIONS CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT

Dale, Anders et al.

FILING DATE

January 22, 2002

GROUP

3736

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	4,884,566	12/89	Mountz et al.	128	303 B	
	A2	5,218,623	06/93	Toki et al.	378	4	
	A3	5,454,019	09/95	Migita et al.	378	15	
	A4	5,583,903	12/96	Saito et al.	378	19	
	A5	5,590,164	12/96	Kawai et al.	378	4	
	A6	5,668,846	09/97	Fox et al.	378	4	
	A7	5,672,877	09/97	Liebig et al.	250	363	
	A8	5,951,475	09/99	Gueziec et al.	600	425	
	A9	6,023,495	02/00	Adler et al.	378	4	
	A10	6,028,907	02/00	Adler et al.	378	4	
	A11	6,195,409 B1	02/01	Chang et al.	378	20	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

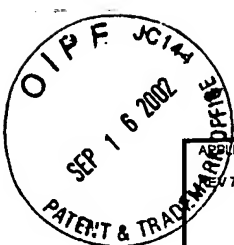
A12	Ashburner, J. et al. Image registration using a symmetric prior--in three dimensions. <i>Hum. Brain Mapp.</i> 2000 Apr;9(4):212-25
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A16	Choi, H. S. et al. Partial volume tissue classification of multichannel magnetic resonance images - A mixel model. <i>IEEE Transactions on Medical Imaging.</i> 1991 Sep;10(3):395-407
A17	Clarke, L. P. et al. MRI: stability of three supervised segmentation techniques. <i>Magn. Reson. Imaging.</i> 1993;11:95-106
A18	Clarke, L. P. et al. MRI segmentation: methods and applications. <i>Magn. Reson. Imaging.</i> 1995;13(3):343-68
A19	Collins, D. L. et al. Automatic 3-D model-based neuroanatomical segmentation. <i>Hum. Brain Mapp.</i> 1995;3(3):190-208
A20	Collins, D. L. et al. Animal: validation and applications of nonlinear registration-based segmentation. <i>International Journal of Pattern Recognition and Artificial Intelligence.</i> 1997;11(8):1271-94

Examiner

Date Considered

*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO HGS-001	SERIAL NO. 10/055256
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)			APPLICANT Dale, Anders et al.	
			FILING DATE January 22, 2002	GROUP 3736

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

B1	Condon, B. R. <i>et al.</i> Image non-uniformity in magnetic resonance imaging: its magnitude and methods for its correction. <i>Br. J. Radiol.</i> 1987 Jan;60(709):83-7	
B2	Dawant, B. M. <i>et al.</i> Correction of intensity variations in MR images for computer-aided tissue classification. <i>IEEE Transactions on Medical Imaging.</i> 1993 Dec;12(4):770-8	
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B4	Freeborough, P. A. <i>et al.</i> Accurate registration of serial 3D MR brain images and its application to visualizing change in neurodegenerative disorders. <i>J. Comput. Assist. Tomogr.</i> 1996 Nov-Dec;20(6):1012-22	
B5	Fischl, B. <i>et al.</i> Whole brain segmentation: Automated labeling of neuroanatomical structures in the human brain. Prepublication received directly from author. January 9, 2001. Pp. 1-26	
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B7	Gee, J. C. <i>et al.</i> Elastically deforming 3D atlas to match anatomical brain images. <i>J. Comput. Assist. Tomogr.</i> 1993 Mar-Apr;17(2):225-36	
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B12	Haacke, E. M. <i>et al.</i> Spin density, T_1 and T_2 quantification methods in MR imaging. In <i>Magnetic Resonance Imaging, Physical Principles and Sequence Design</i> , Wiley-Liss, 1999, Chapter 22, pp. 637-67	
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B14	Jezzard, P. <i>et al.</i> Sources of distortion in functional MRI data. <i>Hum. Brain Mapp.</i> 1999;8:80-5	
B15	Liang, Z. <i>et al.</i> Parameter estimation of finite mixtures using the EM algorithm and information criteria with application to medical image processing. <i>IEEE Transactions on Nuclear Science.</i> 1992;39(4):1126-33	
B16	Liang, Z. <i>et al.</i> Parameter estimation and tissue segmentation from multispectral MR images. <i>IEEE Transactions on Medical Imaging.</i> 1994 Sep;13(3):441-49	
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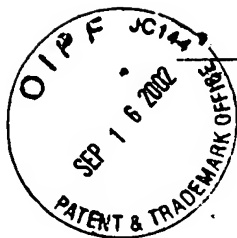


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OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

C1	Rajapakse, J. C. et al. Cerebral magnetic resonance image segmentation using data fusion. <i>J. Comput. Assist. Tomogr.</i> 1996;20(2):206-18
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C8	Van Leemput, K. et al. Automated model-based bias field correction of MR images of the brain. <i>IEEE Transactions on Medical Imaging.</i> 1999 Oct;18(10):885-96
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C11	Wang, Y. et al. Quantification and segmentation of brain tissues from MR images: A probabilistic neural network approach. <i>IEEE Transactions on Image Processing.</i> 1998 Aug;7(8):1-12
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September 11, 2002

Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Patent Application No.: 10/055256
For: *ATLAS AND METHODS FOR SEGMENTATION AND ALIGNMENT OF ANATOMICAL DATA*
Inventors: Dale, Anders *et al.*
Filed: January 22, 2002
Our Ref. No.: HGS-001

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form 1449;
3. Copies of references cited in PTO Form 1449 (56); and
4. A Return Postcard.

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Date

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